



# INFORMATION DISCLOSURE CITATION

OMB No. 0651-0011

Patent No.	08702.0137-00000	Appln. No.	10/798,380
Applicant	YOUNG et al.		
Filing Date	March 12, 2004	Group:	1645

U.S. PATENT DOCUMENTS						
Examiner Initial*	Document Number	Issue Date	Name	Class	Sub Class	Filing Date If Appropriate
EGS	4,179,337	12/18/1979	Davis et al.	435	181	07/28/1977
	4,301,144	11/17/1981	Iwashita et al.	424	78	07/10/1980
	4,495,285	01/22/1985	Shimizu et al.	435	215	10/27/1982
	4,496,689	01/29/1985	Mitra	525	54.1	12/27/1983
	4,522,811	06/11/1985	Eppstein et al.	514	2	07/08/1982
	4,609,546	09/02/1986	Hiratani	424	83	06/23/1983
	4,640,835	02/03/1987	Shimizu et al.	424	94	10/28/1983
	4,670,417	06/02/1987	Iwasaki et al.	514	6	02/21/1986
	4,766,106	08/23/1988	Katre et al.	514	12	01/25/1988
	4,791,192	12/13/1988	Nakagawa et al.	530	399	06/18/1987
	4,816,567	03/28/1989	Cabilly et al.	530	387	04/08/1983
	5,011,912	04/30/1991	Hopp et al.	530	387	04/10/1989
	5,565,332	10/15/1996	Hoogenboom et al.	435	69.1	09/23/1992
	5,624,821	04/29/1997	Winter et al.	435	69.6	06/07/1995
	5,648,260	07/15/1997	Winter et al.	435	252.3	06/07/1995
	6,057,128	05/02/2000	Donaldson et al.	435	69.1	03/17/1998
	6,258,562 B1	07/10/2001	Salfeld et al.	435	69.6	02/10/1997
	6,307,024 B1	10/23/2001	Novak et al.	530	351	03/09/2000
	6,350,892 B2	02/26/2002	Banville et al.	556	436	02/18/2000
↓	6,576,744 B1	06/10/2003	Presnell et al.	530	351	09/23/1999

U.S. PATENT APPLICATIONS						
Examiner Initial*	Publication No.	Publication Date	Name	Class	Sub Class	Filing Date If Appropriate
EGS	US 2001/0025022 A1	09/27/2001	Kikly et al.	514	2	01/11/2001
EGS	US 2002/0090680 A1	07/11/2002	Hodge	435	69.1	09/26/2001
EGS	US 2002/0128446 A1	09/12/2002	Novak et al.	530	351	08/03/2001

## INFORMATION DISCLOSURE CITATION

Atty. Docket No.	08702.0137-00000	Appln. No.	10/798,380
Applicant	YOUNG et al.		
Filing Date	March 12, 2004	Group:	1645

Examiner Initial*	Publication No.	Publication Date	Name	Class	Sub Class	Filing Date If Appropriate
EGS	US 2002/0137677 A1	09/26/2002	Sprecher et al.	514	12	04/03/2001
↓	US 2002/0160451 A1	10/31/2002	Masiakowski et al.	435	69.1	08/29/2001
	US 2003/0049798 A1	03/13/2003	Carter et al.	435	69.7	10/04/2001
↓	US 2003/0108549 A1	06/12/2003	Carter et al.	424	145.1	10/04/2002

FOREIGN PATENT DOCUMENTS						
	Document Number	Publication Date	Country	Class	Sub Class	Translation Yes or No
EGS	EP 0 388 151 A1	09/19/1990	Europe	C12N	15/13	
	EP 0 812 913 A2	12/17/1997	Europe	C12N	15/12	
	EP 1 088 831 A1	04/04/2001	Europe	CO7K	14/715	
	WO 87/05330	09/11/1987	PCT	C12P	21/00	
	WO 92/01047	01/23/1992	PCT	C12N	15/00	
	WO 94/29351	12/22/1994	PCT	CO7K	15/28	
	WO 96/04388	02/15/1996	PCT	C12N	15/62	
	WO 97/47741 A1	12/18/1997	PCT	C12N	15/12	
	WO 97/47742 A1	12/18/1997	PCT	C12N	15/12	
	WO 98/11225	03/19/1998	PCT	C12N	15/19	
	WO 98/31811	07/23/1998	PCT	C12N	15/19	
	WO 99/47675	09/23/1999	PCT	C12N	15/12	
	WO 00/08152	02/17/2000	PCT	C12N	15/12	
	WO 00/17235	03/30/2000	PCT	CO7K	14/00	
	WO 00/27882 A1	05/18/2000	PCT	CO7K	14/705	
	WO 00/53761 A2	09/14/2000	PCT	C12N	15/19	
	WO 00/56772	09/28/2000	PCT	CO7K	16/24	
	WO 00/69880 A1	11/23/2000	PCT	CO7H	21/02	
	WO 01/36467 A2	05/25/2001	PCT	CO7K	14/00	
	WO 01/55112 A1	08/02/2001	PCT	CO7D	211/60	
↓	WO 01/77171 A2	10/18/2001	PCT	CO7K	14/705	

## INFORMATION DISCLOSURE CITATION

Atty. Docket No.	08702.0137-00000	Appln. No.	10/798,380
Applicant	YOUNG et al.		
Filing Date	March 12, 2004	Group:	1645

FOREIGN PATENT DOCUMENTS							
		Document Number	Publication Date	Country	Class	Sub Class	Translation Yes or No
EGS		WO 01/85792 A2	11/15/2001	PCT	C07K	14/715	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
EGS	Altschul et al., "Basic Local Alignment Search Tool", <i>J. Mol. Biol.</i> , 215:403-410 (1990)
	Aplin et al., "Preparation, Properties, and Applications of Carbohydrate Conjugates of Proteins and Lipids", <i>CRC Crit. Rev. Biochem.</i> , 10:259-306 (1981)
	Asao et al., "Cutting Edge: The Common $\gamma$ -Chain Is an Indispensable Subunit of the IL-21 Receptor Complex", <i>J. Immunol.</i> , 167:1-5 (2001)
	Barbas et al., "In Vitro Evolution of a Neutralizing Human Antibody to Human Immunodeficiency Virus Type 1 to Enhance Affinity and Broaden Strain Cross-Reactivity", <i>Proc. Natl. Acad. Sci. USA</i> , 91:3809-3813 (1994)
	Baumgartner et al., "Double Blind, Placebo Controlled Trial of Tumor Necrosis Factor Receptor Fusion Protein (TNFR:Fc) in Active Rheumatoid Arthritis", <i>J. Invest. Med.</i> , 44(3):235A (1996)
	Bazan, "Structural design and molecular evolution of a cytokine receptor superfamily," <i>Proc. Natl. Acad. Sci. USA</i> , 87:6934-6938 (1990)
	Bird et al., "Single-Chain Antigen-Binding Proteins", <i>Science</i> , 242:423-426 (1988)
	Biró et al., "The effect to WSEWS Pentapeptide and WSEWS-Specific Monoclonal Antibodies on Constitutive and IL-6 Induced Acute-Phase Protein Production by a Human Hepatoma Cell Line, HEPG-2," <i>Immunology Letters</i> , 46:183-187 (1995)
	Caput et al., "Cloning and Characterization of a Specific Interleukin (IL)-13 Binding Protein Structurally Related to the IL-5 Receptor $\alpha$ Chain," <i>J. Biol. Chem.</i> , 271(28):16921-16926 (1996)
	Chikanza et al., "Treatment of Patients with Rheumatoid Arthritis with RP73401 Phosphodiesterase Type IV Inhibitor", <i>Arthritis &amp; Rheumatism</i> , 39(9):S282, Abstract 1527 (1996)
	Clackson et al., "Making Antibody Fragments Using Phage Display Libraries", <i>Nature</i> , 352:624-628 (1991)
	Courtenay et al., "Immunisation Against Heterologous Type II Collagen Induces Arthritis in Mice", <i>Nature</i> , 283:666-628 (1980)
	D'Andrea et al., "Expression Cloning of the Murine Erythropoietin Receptor," <i>Cell</i> , 57:277-285 (1989)
↓	Debinski et al., "A Novel Chimeric Protein Composed of Interleukin 13 and <i>Pseudomonas</i> Exotoxin Is Highly Cytotoxic to Human Carcinoma Cells Expressing Receptors for Interleukin 13 and Interleukin 4," <i>J. Biol. Chem.</i> , 270(28):16775-16780 (1995)

## INFORMATION DISCLOSURE CITATION

Atty. Docket No.	08702.0137-00000	Appln. No.	10/798,380
Applicant	YOUNG et al.		
Filing Date	March 12, 2004	Group:	1645

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
EGS	Dusanter-Fourt et al., "Transduction du signal par les récepteurs de cytokines," <i>Synthèse</i> , 10:825-35 (1994); English language summary attached.
	Edge et al., "Deglycosylation of Glycoproteins by Trifluoromethanesulfonic Acid", <i>Anal. Biochem.</i> , 118:131-137 (1981)
	Ehrich et al., "Demonstration of Selective Cox-2 Inhibition by MK-966 In Humans", <i>Arthritis &amp; Rheumatism</i> , 39(9):S81, Abstract 328 (1996)
	Elit, L., "CCI-779 Wyeth", <i>Curr. Opin. Invest. Drugs</i> , 3:1249-1253 (2002)
	Engström, A., "The Arrangement of the Protein Molecules in Nuclear-Polyhedrosis Inclusions", <i>Biochem. Exp. Biol.</i> , 11:7-13 (1974)
	Evans et al., "Efficacy of Tumor Necrosis Factor Binding Protein (TNF-bp) In the Streptococcal Cell Wall-Induced Reactivation Model of Arthritis", <i>Arthritis &amp; Rheumatism</i> , 39(9):S284, Abstract 1540 (1996)
	Farr et al., "Sulphasalazine (SASP) in Rheumatoid Arthritis (RA): A 5 Year Prospective Study", <i>Arthritis &amp; Rheumatism</i> , 39(9):S281, Abstract 1519 (1996)
	Fiebich et al., "Effects of NSAIDs on IL-1 $\beta$ Induced IL-6 mRNA and Protein Synthesis in Human Astrocytoma Cells", <i>Neuroimmunol.</i> , 7:1209-1213 (1996)
	Finnegan et al., "Leflunomide Inhibits Immunoglobulin Production by Two Separate Mechanisms", <i>Arthritis &amp; Rheumatism</i> , 39(9):S131, Abstract 627 (1996)
	Fulmer et al., "Transplantation of Cardiac Tissue into the Mouse Ear", <i>Am. J. Anatomy</i> , 113:273-281 (1963)
	Gram et al., "In Vitro Selection and Affinity Maturation of Antibodies from a Naive Combinatorial Immunoglobulin Library", <i>Proc. Natl. Acad. Sci. USA</i> , 89:3576-3580 (1992)
	Griffiths et al., "Human Anti-Self Antibodies with High Specificity From Phage Display Libraries", <i>EMBO J.</i> , 12:725-734 (1993)
	Guttadauria, M., "Tenidap in Rheumatoid Arthritis Collaborative International Study (Tracis): A 6-Month Interim Analysis", <i>Arthritis &amp; Rheumatism</i> , 39(9):S280, Abstract 1516 (1996)
	Hatakeyama et al., "Interleukin-2 Receptor Chain Gene: Generation of Three Receptor Forms by Cloned Human and Chain cDNA's," <i>Science</i> , 244:552-556 (1989)
	Hieter et al., "Clustered Arrangement of Immunoglobulin $\lambda$ Constant Region Genes in Man", <i>Nature</i> , 294:536-540 (1981)
	Hillier et al., "Generation and analysis of 280,000 human expressed sequence tags," <i>Genome Res.</i> , 6(9):807-828 (1996)
	Holmdahl et al., "The Molecular Pathogenesis of Collagen-Induced Arthritis in Mice - A Model for Rheumatoid Arthritis", <i>Ageing Res. Rev.</i> , 1:135-147 (2002)
↓	Huang et al., "Inhibitors of Mammalian Target of Rapamycin as Novel Antitumor Agents: From Bench to Clinic", <i>Curr. Opin. Investig. Drugs</i> , 3:295-304 (2002)

## INFORMATION DISCLOSURE CITATION

Atty. Docket No.	08702.0137-00000	Appln. No.	10/798,380
Applicant	YOUNG et al.		
Filing Date	March 12, 2004	Group:	1645

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
EGS	Huston et al., "Protein Engineering of Antibody Binding Sites: Recovery of Specific Activity in an Anti-Digoxin Single-Chain Fv Analogue Produced in <i>Escherichia coli</i> ", <i>Proc. Natl. Acad. Sci. USA</i> , 85:5879-5883 (1988)
EGS	Junghans et al., "Anti-Tac-H, a Humanized Antibody to the Interleukin 2 Receptor with New Features for Immunotherapy in Malignant and Immune Disorders", <i>Cancer Res.</i> , 50:1495-1502 (1990)
	Kasaian et al., "IL-21 Limits NK Cell Responses and Promotes Antigen-Specific T Cell Activation: A Mediator of the Transition from Innate to Adaptive Immunity", <i>Immunity</i> , 16:559-569 (2002)
	Köhler et al., "Continuous Cultures of Fused Cells Secreting Antibody of Predetermined Specificity", <i>Nature</i> , 256:495-499 (1975)
	Lai et al., "STAT3 and STAT5B Are Targets of Two Different Signal Pathways Activated by Hematopoietin Receptors and Control Transcription via Separate Cytokine Response Elements," <i>J. Biol. Chem.</i> , 270(40):23254-23257 (1995)
	Lenschow et al., "Long-Term Survival of Xenogeneic Pancreatic Islet Grafts Induced by CTLA4Ig", <i>Science</i> , 257:789-792 (1992)
	Loftus et al., "Homo sapiens chromosome 16 BAC clone CIT987-SKA-670B5, complete genomic sequence," EMBL database entry HSAC2303; accession number AC002303
	Ma et al., "IL-21 Activates Both Innate and Adaptive Immunity to Generate Potent Antitumor Responses that Require Perforin but Are Independent of IFN- $\gamma$ ," <i>J. Immunol.</i> , 171:608-615 (2003)
	MacLennan et al., "Structure-Function Relationships in the Ca <sup>2+</sup> - Binding and Translocation Domain of SERCA1: Physiological Correlates in Brody Disease", <i>Acta Physiol. Scand.</i> , Suppl. 643:55-67 (1998)
	Mallat et al., "Interleukin-18/Interleukin-18 Binding Protein Signaling Modulates Atherosclerotic Lesion Development and Stability", <i>Circ. Res.</i> , 89:e41-e45 (2001)
	Marks et al., "By-Passing Immunization: Building High Affinity Human Antibodies by Chain Shuffling", <i>Biotech.</i> , 10:779-783 (1992)
	Marks et al., "Human Antibodies from V-Gene Libraries Displayed on Phage", <i>J. Mol. Biol.</i> , 222:581-597 (1991)
	Mehta et al., "IL-21 Induces the Apoptosis of Resting and Activated Primary B Cells," <i>J. Immunol.</i> , 170:4111-4118 (2003)
	Moreland et al., "Soluble Tumor Necrosis Factor Receptor (sTNFR): Results of a Phase I Dose-Escalation Study in Patients with Rheumatoid Arthritis", <i>Arthritis &amp; Rheumatism</i> , 37(9):S295, Abstract 813 (1994)
	Myers et al., "Optimal Alignments in Linear Space", <i>CABIOS</i> , 4:11-17 (1988)
	Needleman et al., "A General Method Applicable to the Search for Similarities in the Amino Acid Sequence of Two Proteins", <i>J. Mol. Biol.</i> , 48:443-453 (1970)
↓	Nomura et al., "A novel cytokine receptor NR8 is closely mapped to IL-4R: Polymorphism in Balb/c mouse," Sept. 20, 2000, submitted to the EMBL/GenBank/DDBJ databases.

## INFORMATION DISCLOSURE CITATION

Atty. Docket No.	08702.0137-00000	Appln. No.	10/798,380
Applicant	YOUNG et al.		
Filing Date	March 12, 2004	Group:	1645

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
EGS	O'Dowd et al., "Cloning and chromosomal mapping of four putative novel human G-protein-coupled receptor genes," <i>Gene</i> , 187:75-81 (1997)
	Ozaki et al., "Cloning of a Type I Cytokine Receptor Most Related to the IL-2 Receptor $\beta$ Chain", <i>Proc. Natl. Acad. Sci. USA</i> , 97:11439-11444 (2000)
	Page et al., "An Antiproliferative Bioassay for Interleukin-4," <i>J. Immunol. Meth.</i> , 189:129-135 (1996)
	Parrish-Novak et al., "Interleukin 21 and its Receptor are Involved in NK Cell Expansion and Regulation of Lymphocyte Function", <i>Nature</i> , 408:57-63 (2000)
	Sasaki et al., "Structure-Mutation Analysis of the ATPase Site of <i>Dictyostelium Discoideum</i> Myosin II", <i>Adv. Biophys.</i> , 35:1-24 (1998)
	Schier et al., "Isolation of Picomolar Affinity Anti-c-erbB-2 Single-Chain Fv by Molecular Evolution of the Complementarity Determining Regions in the Center of the Antibody Binding Site". <i>J. Mol. Biol.</i> , 263:551-567 (1996)
	Sewell et al., "DAB <sub>486</sub> IL-2 Fusion Toxin In Refractory Rheumatoid Arthritis", <i>Arthritis &amp; Rheumatism</i> , 36:1223-1233 (1993)
	Sobel et al., "The Immunopathology of Experimental Allergic Encephalomyelitis", <i>J. Immunol.</i> , 132:2393-2401 (1984)
	Sojar et al., "A Chemical Method for the Deglycosylation of Proteins", <i>Arch. Biochem. Biophys.</i> , 259:52-57 (1987)
	Takahashi et al., "Structure of Human Immunoglobulin Gamma Genes: Implications for Evolution of a Gene Family", <i>Cell</i> , 29:671-679 (1982)
	Thoss et al., "Immunomodulation of Rat Antigen-Induced Arthritis by Leflunomide Alone and in Combination with Cyclosporin A", <i>Inflamm. Res.</i> , 45:103-107 (1996)
	Thotakura et al., "Enzymatic Deglycosylation of Glycoproteins", <i>Meth. Enzymol.</i> , 138:350-359 (1987)
	Traugott, U., "Detailed Analysis of Early Immunopathologic Events During Lesion Formation in Acute Experimental Autoimmune Encephalomyelitis", <i>Cell Immunol.</i> , 119:114-129 (1989)
	Tuohy et al., "A Synthetic Peptide From Myelin Proteolipid Protein Induces Experimental Allergic Encephalomyelitis". <i>J. Immunol.</i> , 141:1126-1130 (1988)
	Vaickus et al., "Immune Markers in Hematologic Malignancies", <i>Crit. Rev. in Oncol./Hematol.</i> , 11:267-297 (1991)
	Vaughan et al., "Human Antibodies with Sub-Nanomolar Affinities Isolated from a Large Non-Immunized Phage Display Library", <i>Nature Biotech.</i> , 14:309-314 (1996)
	Vita et al., "Characterization and Comparison of the Interleukin 13 Receptor with the Interleukin 4 Receptor on Several Cell Types," <i>J. Biol. Chem.</i> , 270(8):3512-3517 (1995)
↓	Ward et al., "Binding Activities of a Repertoire of Single Immunoglobulin Variable Domains Secreted from <i>Escherichia Coli</i> ", <i>Nature</i> , 341:544-546 (1989)

## INFORMATION DISCLOSURE CITATION

Atty. Docket No.	08702.0137-00000	Appln. No.	10/798,380
Applicant	YOUNG et al.		
Filing Date	March 12, 2004	Group:	1645

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
EGS	Williams et al., "Successful Therapy of Collagen-Induced Arthritis with TNF Receptor-IgG Fusion Protein and Combination with Anti-CD4", <i>Immunol.</i> , 84:433-439 (1995)
	Wurster et al., "Interleukin 21 Is a T Helper (Th) Cell 2 Cytokine that Specifically Inhibits the Differentiation of Naive Th Cells into Interferon $\gamma$ -producing Th1 Cells," <i>J. Exp. Med.</i> , 196(7):969-977 (2002)
	Yan et al., "Two-Amino Acid Molecular Switch in an Epithelial Morphogen That Regulates Binding to Two Distinct Receptors", <i>Science</i> , 290:523-527 (2000)
	Yusuf-Makagiansar et al., "Inhibition of LFA-1/ICAM-1 and VLA-4/VCAM-1 as a Therapeutic Approach to Inflammation and Autoimmune Diseases", <i>Med. Res. Rev.</i> , 22:146-167 (2002)
	Zhang et al., "Identification, Purification, and Characterization of a Soluble Interleukin (IL)-13-binding Protein," <i>J. Biol. Chem.</i> , 272(14):9474-9480 (1997)

Examiner	/Elly Gerald Stoica/	Date Considered	10/25/2006
*Examiner:	Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.		
Form PTO 1449		Patent and Trademark Office - U.S. Department of Commerce	

Complete if Known

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

1

of

1

Application Number 10/798,380  
 Filing Date March 12, 2004  
 First Named Inventor Young  
 Art Unit 1645  
 Examiner Name Not Yet Assigned  
 Attorney Docket Number 08702.0137-00000

## **U.S. PATENTS AND PUBLISHED U.S. PATENT APPLICATIONS**

Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Document Number	Issue or Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
EGS		US-2003/0148447 A1	August 7, 2003	Presnell et al.	

Note: Copies of the U.S. Patent Documents are not Required in IDS filed after October 21, 2004

## **FOREIGN PATENT DOCUMENTS**

Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Translation <sup>5</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
EGS		WO 03/028630 A2	April 10, 2003	Wyeth		

## **NON PATENT LITERATURE DOCUMENTS**

Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Translation <sup>6</sup>
EGS		International Search Report for PCT/US2004/007444, mailed September 27, 2004	
EGS		Collins et al., "IL-21 and IL-21 Receptor", <i>Immunologic Res.</i> , 28:131-140 (2003)	

Examiner  
Signature

/Elly Gerald Stoica/

Date  
Considered

08/25/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.